WEST Search History

Hide Items	Restore	Clear	Cancel
------------	---------	-------	--------

DATE: Monday, August 30, 2004

Hide?	<u>Set</u> Name	Query	<u>Hit</u> Count
	DB=PC	SPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=AND	
	L1	landegren.in.	62
*****	L2	L1 and kit.clm.	8
	L3	kit.clm. same three.clm.	804
	L4	L3 same oligo\$.clm.	55
	L5	L4 and (antibod\$ or protein or polypeptide or peptide or poly-peptide or antigen).clm.	11

END OF SEARCH HISTORY

Home Help Subjects Feedback Random	Search OMD
aptamer	
< <u>molecular biology</u> > A <u>double</u> stranded <u>DNA</u> or <u>single</u> stranded <u>RNA molecule</u> that <u>bind</u> to <u>s</u> metabolite.	specific molecular targets, such as a protein or
(13 Oct 1997)	
Previous: aprosody, aprosopia, a-protein, aprotic, aprotinin, APS, apsidal, apsis, apt Next: aptera, apteral, apteran, apteria, apterous, apteryges, apteryx	

Published at the Dept. of Medical Oncology, <u>University of Newcastle upon Tyne</u> © <u>Copyright 1997-2004</u> - The CancerWEB Project. All Rights Reserved. First Hit Fwd Refs

Previous Doc Next Doc Go to Doc#

Generate Collection Print

L2: Entry 3 of 8

File: USPT

May 6, 2003

US-PAT-NO: 6558928

DOCUMENT-IDENTIFIER: US 6558928 B1

TITLE: Rolling circle replication of padlock probes

DATE-ISSUED: May 6, 2003

INVENTOR - INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Landegren; Ulf

Uppsala

S-751 23

SE

US-CL-CURRENT: 435/91.1; 435/7.1, 435/91.2, 536/24.3

CLAIMS:

What is claimed is:

- 1. A method comprising: i) providing a padlock probe for the target sequence, ii) forming a hybrid of the padlock probe with the target nucleic acid, and circularizing the padlock probe, iii) cutting the target nucleic acid at or near the target sequence, this step iii) being performed before, during or after step ii), and iv) effecting rolling circle replication of the padlock probe.
- 2. The method of claim 1, wherein step iii) is performed by subjecting the hybrid to restriction thereby cutting the target nucleic acid at or near the target sequence but without cutting the circularised padlock probe.
- 3. The method of claim 1, wherein in step iii) the target nucleic acid is cut within the target sequence to provide a primer by means of which rolling circle circle replication of the padlock probe is effected in step iv).
- 4. The method of claim 1, wherein the target nucleic acid is cut downstream of the target sequence following which any non-basepaired nucleotides are removed by a 3'-exonuclease.
- 5. The method of claim 4, wherein Phi29 is used as a polymnerase enzyme having also 3'-exonuclease activity.
- 6. The method of claim 3, wherein in step iii) restriction is effected by means means of a type IIS enzyme.
- 7. The method claim 1, wherein the target nucleic acid is circular.
- 8. An oligonucleotide suitable for use as a padlock probe for a target nucleic acid sequence, which oligonucleotide has 5'-end and 3'-end sequences complementary to the target sequence; a first site for recognition by a type

First Hit Fwd Refs

Previous Doc Next Doc

Go to Doc#

Generate Collection

Print

L2: Entry 3 of 8

File: USPT

May 6, 2003

US-PAT-NO: 6558928

DOCUMENT-IDENTIFIER: US 6558928 B1

TITLE: Rolling circle replication of padlock probes

DATE-ISSUED: May 6, 2003

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Landegren; Ulf

Uppsala

S-751 23

SE

APPL-NO: 09/ 647036 [PALM] DATE FILED: March 16, 2001

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY

APPL-NO

APPL-DATE

EΡ

98302278

March 25, 1998

PCT-DATA:

APPL-NO

DATE-FILED

PUB-NO

PUB-DATE

371-DATE 102(E)-DATE

PCT/EP99/02111 March 25, 1999 WO99/49079 Sep 30, 1999

INT-CL: [07] C12 P 19/34, C07 H 21/04

US-CL-ISSUED: 435/91.1; 435/91.2, 435/7.1, 536/24.3 US-CL-CURRENT: 435/91.1; 435/7.1, 435/91.2, 536/24.3

FIELD-OF-SEARCH: 435/6, 435/7.1, 435/91.1, 435/91.2, 435/810, 536/24.3

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected Search ALL Clear

PAT-NO

ISSUE-DATE

PATENTEE-NAME

US-CL

5854033 December 1998

Lizardi

435/91.2

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO

PUBN-DATE

COUNTRY

US-CL

97/19193

May 1997

WO

OTHER PUBLICATIONS

Baner et al., Nucleic Acids Res. 26(22), 5073-5078 (Nov. 15, 1998).

ART-UNIT: 1656

PRIMARY-EXAMINER: Horlick; Kenneth R.

ATTY-AGENT-FIRM: Volpe and Koenig, P.C.

ABSTRACT:

Rolling circle replication of a padlock primer is inhibited when it is hybridized to to a target nucleic acid that is long or circular. The invention provides methods of of addressing this problem including cutting the target nucleic acid near or preferably at the site which hybridizes with the padlock probe, whereby a 3'-end of the cut target nucleic acid acts as a primer for rolling circle replication of the padlock probe. Also included is a method of assaying for a polyepitopic target by the use of two affinity probes each carrying an oligonucleotide tag and of a padlock padlock probe for rolling circle replication in association with the two affinity probes

20 Claims, 14 Drawing figures

Previous Doc Next Doc Go to Doc#

First Hit

Previous Doc

Next Doc

Go to Doc#

Generate Collection

Print

L2: Entry 2 of 8

File: PGPB

May 30, 2002

PGPUB-DOCUMENT-NUMBER: 20020064779

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020064779 A1

TITLE: Methods and kits for proximity probing

PUBLICATION-DATE: May 30, 2002

INVENTOR - INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Landegren, Ulf

Fredriksson, Simon

Uppsala Uppsala SE SE

APPL-NO: 09/ 785657 [PALM]

DATE FILED: February 20, 2001

RELATED-US-APPL-DATA:

Application is a non-provisional-of-provisional application 60/183371, filed February 18, 2000,

INT-CL: [07] $\underline{C12}$ \underline{Q} $\underline{1/68}$, $\underline{C12}$ \underline{Q} $\underline{1/70}$, $\underline{G01}$ \underline{N} $\underline{33/53}$

US-CL-PUBLISHED: 435/6; 435/5, 435/7.1 US-CL-CURRENT: 435/6; 435/5, 435/7.1

REPRESENTATIVE-FIGURES: NONE

ABSTRACT:

The present invention relates to sensitive, rapid and convenient assays for detection and/or quantification of one or several analyte(s) in solution using so called proximity probes. The proximity probes comprise a binding moiety and a nucleic acid. The nucleic acid from one proximity probe is only capable of interaction with the nucleic acid from the other proximity probe when these are in close proximity, i.e. have bound to the analytes for which they are specific. The present invention relates to methods and kits for proximity probing and are performed in solution without the need of a solid phase.

Previous Doc

Next Doc

Go to Doc#